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INFLUENCE OF NOTCHES DURING BENDING, tr. by
George N. Kasachkoff and George F. Hill. 7 Mar 62
[6]p. 2 refs. [AMC] (Redstone) Trans-nr 14-62.
Order from OTS or SLA \$1.10 62-23317

Trans. of Fizika Metallov i Metallovedenie (USSR)
1958, v. 6, no. 1, p. 181-183.

DESCRIPTORS: Metals, *Brass, *Aluminum, *Steel,
*Deformation, Plasticity, Tests.

A study was made to determine whether the influence of
a notch has any relation to the uniform lengthening of
metal. The study was performed on impact samples with
a square cross section, of standard sizes, with and
without notch. The deformed volumes were determined
with a scaling grid having 1 mm square cells, drawn
with the aid of an instrumental microscope. The tests
showed that the effect of notches and uniform lengthening
are closely connected.

62-23317

- I. Bondarev, Yu. E.
- II. AMC(Redstone) Trans-14-62
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Redstone Arsenal, Ala.

1230473

(Metallurgy. TT, v. 9, no. 7)

Office of Technical Services

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A Method for Determining the Plasticity Characteristics of Metals, by Yu. K. Bondarev, 4 pp

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HEAT CONDUCTION AND HEAT EXCHANGE IN A
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Kipyashelem Sloe) tr. by M. Slade. [1961] [14]p.
(foreign text included) 8 refs. [CSIRO] Trans. no. 5507.
Order from OTS or SLA \$1.60 62-13608

Trans. of Inzhenerno-Fizicheskii Zhurnal (USSR) 1960,
v. 3, no. 2, p. 105-110.

DESCRIPTORS: *Fluidized solids, *Heat transfer,
Thermal conductivity, Liquids, Turbulent flow, Parti-
cles, Motion.

Visual observations and direct and indirect determi-
nations of the particle velocities show that the move-
ment of the particles in a fluidized bed is analogous to
the movement in a highly turbulent liquid.

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